

Shreyas Kootiganahalli Venugopal

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EDUCATION

- **New York University** 09/2024 - 05/2026
Master of Science in Computer Engineering Brooklyn, United States
 - GPA: 4.0/4.0
- **Bangalore Institute of Technology** 08/2019 - 06/2023
Bachelor of Engineering in Computer Science and Engineering Bangalore, India
 - GPA: 3.4/4.0

EXPERIENCE

- **Campus Collect** 05/2025 - 08/2025
Software Development Intern Virginia, United States
 - Building responsive, modular UI in React with dynamic routing and mobile-first design.
 - Integrating Firebase Auth, Firestore, and Cloud Functions for secure, real-time workflows.
 - Optimizing performance with lazy loading, memoization, and code splitting.
 - Leading feature module development from specification to deployment in collaboration with design and product teams.
- **Ellucian** 02/2023 - 06/2024
Software Engineer - Cloud & Devops Bangalore, India
 - Refactored backend services into microservices using RESTful APIs, improving scalability, deployment speed, & code maintainability.
 - Developed a centralized cloud inventory system with AWS Lambda, Boto3, and DynamoDB to monitor infrastructure metadata in real time.
 - Designed an incident resolution platform with a data lake and ML pipeline (TF-IDF, SVM, Flan-T5), achieving 92% accuracy and reducing resolution time by 60%.
 - Designed serverless ETL pipelines to process incident data and generate real-time alerts, reducing incident frequency by 30%.
 - Built CI/CD pipelines using Jenkins, Terraform, and Ansible to enable gated builds, automated testing, and blue-green deployments, increasing release velocity by 70%.
 - Integrated Slack and ServiceNow for NLP queries, Claude-powered recommendations, automating triage to enable faster incident response.
- **Princeton** 08/2022 - 12/2022
Full stack developer intern Bangalore, India
 - Built a full-stack Cake Ordering app using React, Node.js, Express, and MongoDB with real-time order tracking for 100+ users.
 - Designed customer and admin dashboards, reducing manual order handling by 40%.
 - Developed 10+ secure APIs for auth, product uploads, orders, and updates, improving response time by 30%.
 - Added validation, error handling, and API tests to ensure 100% functional coverage.
- **Bangalore Institute of Technology** 03/2022 - 03/2023
Undergraduate Research Intern Bangalore, India
 - Worked under Dr. Maya B.S. on a health informatics project leveraging NLU, focusing on early detection and patient education for PCOS using conversational AI.
 - Built a DialogFlow-powered chatbot capable of answering 90% of patient FAQs in real time, showcasing applied skills in intent classification, entity recognition, and dialogue design.
 - Integrated NLP components into PCOSAssist, enabling accessible, user-friendly health education and demonstrating the practical application of NLU techniques in real-world healthcare scenarios.

TECHNICAL SKILLS

JavaScript (ES6+), TypeScript, HTML, CSS, JS, Python, Dart, Shell Scripting | FastAPI, Flask, Django, React, Node.js, Express, MongoDB, React Native, Flutter | RESTful APIs, Async Programming | AWS, Docker, Terraform | CI/CD (Jenkins, GitLab, Ansible) | SQL, Data Pipelines | NLP, ML, Tensorflow, PyTorch, Python Data Analysis | Git, Bitbucket, Version Control | Technical Debugging

PROJECTS

- **ClassEdge** [<https://github.com/shreyas-helix/ClassEdge>] 12/2024 - 01/2025
 - Built a RESTful Student Management System using Django with custom AbstractUser, RBAC, and relational models for core entities.
 - Developed secure, role-specific dashboards and streamlined CRUD via Django Admin with version control and atomic transactions.
- **Chell** [<https://github.com/shreyas-helix/Chell>] 01/2025 - 04/2025
 - Built an AST-based fault localization and query refinement system for SLMs (Phi-2, StarCoder-7B) using dense passage retrieval for contextual repair.
 - Fine-tuned on 150+ Python trace failures and outperformed GPT-4/Gemini in pass@1, AST edit distance, and latency benchmarks.
- **Flight Delay Prediction** [<https://github.com/shreyas-helix/flight-delay-2024>] 03/2025 - 04/2025
 - Built a scalable PySpark ML pipeline to predict flight delays using 7M+ records, leveraging HDFS and MLlib for distributed processing.
 - Achieved over 85% accuracy using tuned Random Forest and GBT models; performed feature selection and hyperparameter optimization for performance gains.